



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460


Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020	EPA Reg No./File Symbol 11603-37	Page 1 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604	Product Metribuzin Technical	

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
PRODUCT SPECIFIC DATA REQUIREMENTS					
830.1550	Product Identity and Composition	50920401 50608301 50363801 49948101 46283101	ADAMA Agan Ltd. ADAMA Agan Ltd. ADAMA Agan Ltd. ADAMA Agan Ltd. Agan Chem Mfg. Ltd.	OWN OWN OWN OWN OWN	
830.1600	Description of Materials Used to Produce the Product	50920401 50608301 50363801 49948101 46283101	ADAMA Agan Ltd. ADAMA Agan Ltd. ADAMA Agan Ltd. ADAMA Agan Ltd. Agan Chem Mfg. Ltd.	OWN OWN OWN OWN OWN	
830.1620	Description of the Production Process	50920401 50608301 50363801 49948101 46283101	ADAMA Agan Ltd. ADAMA Agan Ltd. ADAMA Agan Ltd. ADAMA Agan Ltd. Agan Chem Mfg. Ltd.	OWN OWN OWN OWN OWN	
830.1650	Description of the Formulation Process				Not required ¹
830.1670	Discussion of Formation of Impurities	50920401 50608301 50363801 49948101 46283101	ADAMA Agan Ltd. ADAMA Agan Ltd. ADAMA Agan Ltd. ADAMA Agan Ltd. Agan Chem Mfg. Ltd.	OWN OWN OWN OWN OWN	

Signature 	Name and Title Karina Castro; Federal Regulatory Manager	Date March 3, 2020
---	---	-----------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020	EPA Reg No./File Symbol 11603-37	Page 2 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604	Product Metribuzin Technical	

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.1700	Preliminary Analysis	50920403	ADAMA Agan Ltd.	OWN	
		50920402	ADAMA Agan Ltd.	OWN	
		50608302	ADAMA Agan Ltd.	OWN	
		50363802	ADAMA Agan Ltd.	OWN	
		49948103	ADAMA Agan Ltd.	OWN	
		49948102	ADAMA Agan Ltd.	OWN	
		46283102	Agan Chem Mfg. Ltd.	OWN	
		46283101	Agan Chem Mfg. Ltd.	OWN	
830.1750	Certified Limits	50920401	ADAMA Agan Ltd.	OWN	
		50608301	ADAMA Agan Ltd.	OWN	
		50363801	ADAMA Agan Ltd.	OWN	
		49948101	ADAMA Agan Ltd.	OWN	
		46283101	Agan Chem Mfg. Ltd.	OWN	
830.1800	Enforcement Analytical Method	50920403	ADAMA Agan Ltd.	OWN	
		50920402	ADAMA Agan Ltd.	OWN	
		50608302	ADAMA Agan Ltd.	OWN	
		50363802	ADAMA Agan Ltd.	OWN	
		49948103	ADAMA Agan Ltd.	OWN	
		49948102	ADAMA Agan Ltd.	OWN	
		46283102	Agan Chem Mfg. Ltd.	OWN	
		46283101	Agan Chem Mfg. Ltd.	OWN	
830.6302	Color	49948104	ADAMA Agan Ltd.	OWN	

Signature 	Name and Title Karina Castro; Federal Regulatory Manager	Date March 3, 2020
---	---	-----------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020	EPA Reg No./File Symbol 11603-37	Page 3 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604	Product Metribuzin Technical	

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6303	Physical State	49948104	ADAMA Agan Ltd.	OWN	
830.6304	Odor	49948104	ADAMA Agan Ltd.	OWN	
830.6313	Stability to Normal and Elevated Temperatures, Metals and Metal Ions	49948104	ADAMA Agan Ltd.	OWN	
830.6314	Oxidation / Reduction: Chemical Incompatibility	49948104	ADAMA Agan Ltd.	OWN	
830.6315	Flammability				Waived ²
830.6316	Explosibility				Waived ³
830.6317	Storage Stability	49948105	ADAMA Agan Ltd.	OWN	
830.6319	Miscibility				Not required ⁴
830.6320	Corrosion Characteristics	49948105	ADAMA Agan Ltd.	OWN	
830.6321	Dielectric Breakdown Voltage				Not required ⁴
830.7000	pH	49948104	ADAMA Agan Ltd.	OWN	
830.7050	UV / Visible Absorption	49948104	ADAMA Agan Ltd.	OWN	
830.7100	Viscosity				Not required ⁴
830.7200	Melting Point / Melting Range	49948104	ADAMA Agan Ltd.	OWN	
830.7220	Boiling Point / Boiling Range				Not required ⁵
830.7300	Density / Relative Density / Bulk Density	49948104	ADAMA Agan Ltd.	OWN	
830.7370	Dissociation Constants in Water	49948104	ADAMA Agan Ltd.	OWN	
830.7520	Particle Size, Fiber Length, and Diameter Distribution				Not required ⁴
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	49948104	ADAMA Agan Ltd.	OWN	
830.7560	Partition Coefficient (n-octanol/water), Generator Method				See 830.7550

Signature 	Name and Title Karina Castro; Federal Regulatory Manager	Date March 3, 2020
---	---	-----------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020	EPA Reg No./File Symbol 11603-37	Page 4 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604	Product Metribuzin Technical	

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography				See 830.7550
830.7840	Water Solubility: Column Elution Method, Shake Flask Method	49948104	ADAMA Agan Ltd.	OWN	
830.7860	Water Solubility: Generator Column Method				See 830.7840
830.7950	Vapor Pressure			PL	See endnote ⁶
870.1100	Acute Oral Toxicity – rat	44652401		OLD	See endnote ⁷
870.1200	Acute Dermal Toxicity – rat	44713907		OLD	See endnote ⁸
870.1300	Acute Inhalation Toxicity – rat	46105408		OLD	See endnote ⁹
870.2400	Eye Irritation	44738101		OLD	See endnote ¹⁰
870.2500	Skin Irritation	44713904		OLD	See endnote ¹¹
870.2600	Skin Sensitization	46105411		OLD	See endnote ¹²
GENERIC DATA REQUIREMENTS					
850.2100	Acute Avian Oral Toxicity	00145911 ACC#255025 49647303	Bayer CropScience LP	OLD PAY	See endnote ¹³
850.2200	Acute Avian Dietary Toxicity	00065507 00157528 ACC#262228		OLD OLD	See endnote ¹⁴

Signature 	Name and Title Karina Castro; Federal Regulatory Manager	Date March 3, 2020
---	---	-----------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020	EPA Reg No./File Symbol 11603-37	Page 5 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604	Product Metribuzin Technical	

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.2400	Wild Mammal Toxicity				Not required / See 870 series
850.2300	Avian Reproductive Toxicity	43860501 43926601 49724501	Bayer CropScience LP	OLD OLD PAY	See endnote ¹⁵
850.2500	Simulated or Actual Field Testing				Not required
850.1075	Freshwater Fish Toxicity	00090427 00106172 ACC#255025 40098001		OLD OLD OLD	See endnote ¹⁶
850.1010	Freshwater Invertebrate Toxicity	00134495 ACC#72083 40098001		OLD OLD	See endnote ¹⁷
850.1025, 850.1035, 850.1045, 850.1055, 850.1075	Acute Toxicity Estuarine and Marine Organisms	00106197 00161502-03 42094501-02		OLD OLD OLD	See endnote ¹⁸
850.1300	Aquatic Invertebrate Life Cycle (Freshwater)	42447802 42731201 42732501		OLD OLD OLD	See endnote ¹⁹
850.1350	Aquatic Invertebrate Life Cycle (Saltwater)				Not required ²⁰
850.1400	Fish Early Life Stage (Freshwater)	42447801		OLD	See endnote ²¹
850.1400	Fish Early Life Stage (Saltwater)				Not required ²²

Signature 	Name and Title Karina Castro; Federal Regulatory Manager	Date March 3, 2020
---	---	-----------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020	EPA Reg No./File Symbol 11603-37	Page 6 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604		Product Metribuzin Technical

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1500	Life Cycle Fish				Not required
850.1710, 850.1730, 850.1850	Aquatic Organisms Bioavailability, Biomagnification, Toxicity				Not required ²³
850.1950	Simulated or Actual Field Testing for Aquatic Organisms				Not required
850.1735	Whole Sediment: Acute Freshwater Invertebrates				Not required
850.1740	Whole Sediment: Acute Marine Invertebrates				Not required
N/A	Whole Sediment: Chronic Invertebrates Freshwater and Marine				Not required
850.3020	Honey Bee Acute Contact Toxicity	ACC#28772		OLD	See endnote ²⁴
850.3030	Honeybee Toxicity of Residues on Foliage				Reserved ²⁵
850.3040	Field Testing for Pollinators				Reserved ²⁵
870.6100	Delayed Neurotoxicity (Acute) – Hen				Not required ²⁶
870.6200	Acute Neurotoxicity – Rat	44804101			See endnote ²⁷
870.3100	90-Day Oral: Rodent				See endnote / 870.4100 ²⁸
870.3150	90-Day Oral: Non-Rodent	45621001		OLD	See endnote ²⁹
870.3200	21/28-Day Dermal Toxicity	43970701		OLD	See endnote ³⁰
870.3250	90-Day Dermal Toxicity				Not required ³¹
870.3465	90-Day Inhalation Toxicity	00153706		OLD	See endnote ³²
870.6100	28-Day Delayed Neurotoxicity – Hen				Not required ³³
870.6200	90-Day Neurotoxicity	44804102		OLD	See endnote ³⁴

Signature 	Name and Title Karina Castro; Federal Regulatory Manager	Date March 3, 2020
---	---	-----------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020	EPA Reg No./File Symbol 11603-37	Page 7 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604	Product Metribuzin Technical	

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.4100	Chronic Oral Rodent	42672501		OLD	See endnote ³⁵
870.4200	Carcinogenicity	00087795 42672501		OLD OLD	See endnote ³⁶
870.3700	Reproduction / Developmental Toxicity Screening Test	00087796 00163802 41249201 41835501		OLD OLD OLD OLD	See endnote ³⁷
870.3800	2-Generation Reproduction: Rat	40838401		OLD	See endnote ³⁸
870.6300	Developmental Neurotoxicity Study				Not required ³⁹
870.5100	Bacterial Reverse Mutation Test	00086770 00109254		OLD OLD	See endnote ⁴⁰
870.5300, 870.5375	<i>In vitro</i> Mammalian Cell Assay	00157527 41555102		OLD OLD	See endnote ⁴¹
870.5385, 870.5395, 870.5450, 870.5550	<i>In vivo</i> Cytogenetics and Other Effects	00086765 00086767-68 00086770 00109254 00157526		OLD OLD OLD OLD OLD	See endnote ⁴²
870.7485	Metabolism and Pharmacokinetics	40255503		OLD	See endnote ⁴³
870.7200	Companion Animal Safety				Not required
870.7600	Dermal Penetration	50201602	Bayer CropScience LP	PAY	See endnote ⁴⁴
870.7800	Immunotoxicity				Waived ⁴⁵

Signature

Name and Title
Karina Castro; Federal Regulatory ManagerDate
March 3, 2020



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020	EPA Reg No./File Symbol 11603-37	Page 8 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604	Product Metribuzin Technical	

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.1100	Dermal Exposure – Outdoor		Agricultural Handler Exposure TF	OWN	See endnote ⁴⁶
875.1200	Dermal Exposure – Indoor				Not required
875.1300	Inhalation Exposure – Outdoor		Agricultural Handler Exposure TF	OWN	See endnote ⁴⁶
875.1400	Inhalation Exposure – Indoor				Not required
875.1500	Biological Monitoring		Agricultural Handler Exposure TF	OWN	See endnote ⁴⁶
875.1600	Data Reporting and Calculations		Agricultural Handler Exposure TF	OWN	See endnote ⁴⁶
875.1700	Product Use Information		Agricultural Handler Exposure TF	OWN	See endnote ⁴⁶
875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues	50844101	Bayer CropScience LP	PAY	
875.2200	Soil Residue Dissipation		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁷
875.2400	Dermal Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁷
875.2500	Inhalation Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁷
875.2600	Biological Monitoring		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁷
875.2700	Product Use Information		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁷

Signature 	Name and Title Karina Castro; Federal Regulatory Manager	Date March 3, 2020
---	---	-----------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020	EPA Reg No./File Symbol 11603-37	Page 9 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604	Product Metribuzin Technical	

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2800	Descriptions of Human Activity		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁷
875.2900	Data Reporting and Calculations		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁷
875.3000	Nondietary Ingestion Exposure		Agricultural Reentry TF Outdoor Residential Exposure TF	OWN OWN	See endnote ⁴⁷
201-1	Droplet Size Spectrum		Spray Drift TF	OWN	See endnote ⁴⁸
202-1	Droplet Size Spectrum		Spray Drift TF	OWN	See endnote ⁴⁸
890.1100	Amphibian Metamorphosis (Rat)				Not required ⁴⁹
890.1150	Androgen Receptor Binding (Rat Prostate)	48617905	Bayer CropScience LP	PER	See endnote ⁵⁰
890.1200	Aromatase (Human Recombinant)	48617901	Bayer CropScience LP	PER	See endnote ⁵¹
890.1250	Estrogen Receptor Binding	48617902	Bayer CropScience LP	PER	See endnote ⁵²
890.1300	Estrogen Receptor Transcriptional Activation Assay	48617903	Bayer CropScience LP	PER	See endnote ⁵³
890.1350	Fish Short-Term Reproduction	48672202	Bayer CropScience LP	PER	See endnote ⁵⁴
890.1400	Hershberger (Rat)	48617904	Bayer CropScience LP	PER	See endnote ⁵⁵
890.1450	Female Pubertal (Rat)	48672203	Bayer CropScience LP	PER	See endnote ⁵⁶
890.1500	Male Pubertal (Rat)	48672203	Bayer CropScience LP	PER	See endnote ⁵⁷
890.1550	Steroidogenesis	48617906	Bayer CropScience LP	PER	See endnote ⁵⁸
890.1600	Uterotrophic (Rat)	48617907	Bayer CropScience LP	PER	See endnote ⁵⁹

Signature 	Name and Title Karina Castro; Federal Regulatory Manager	Date March 3, 2020
---	---	-----------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020	EPA Reg No./File Symbol 11603-37	Page 10 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604	Product Metribuzin Technical	

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.4100	Tier 1: Seedling Emergence	42447803 43208301		OLD OLD	See endnote ⁶⁰
850.4150	Tier 1: Vegetative Vigor	42447803		OLD	See endnote ⁶¹
850.4400, 850.4500	Tier 1: Aquatic Plant Growth	43133601 43826101 43867701 43893501-02 43921001 45088212		OLD OLD OLD OLD OLD OLD	See endnote ⁶²
850.4100	Tier 2: Seedling Emergence	42447803 43208301		OLD OLD	See endnote ⁶⁰
850.4150	Tier 2: Vegetative Vigor	42447803		OLD	See endnote ⁶¹
850.4400, 850.4500	Tier 2: Aquatic Plant Growth	43133601 43826101 43867701 43893501-02 43921001 45088212		OLD OLD OLD OLD OLD OLD	See endnote ⁶²
850.4300	Terrestrial Field				Not required
850.4450	Aquatic Field				Not required
850.4025	Target Area Phytotoxicity				Not required

Signature 	Name and Title Karina Castro; Federal Regulatory Manager	Date March 3, 2020
---	---	-----------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020	EPA Reg No./File Symbol 11603-37	Page 11 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604	Product Metribuzin Technical	

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.4550	Cyanobacteria Toxicity	43893502		OLD	See endnote ⁶³
835.2120	Hydrolysis	00157530		OLD	See endnote ⁶⁴
835.2240	Photodegradation in Water	00157529		OLD	See endnote ⁶⁵
835.2410	Photodegradation in Soil	00157531		OLD	See endnote ⁶⁶
835.2370	Photodegradation in Air				Not required
835.4100	Aerobic Soil Metabolism	40367602		OLD	See endnote ⁶⁷
835.4200	Anaerobic Soil Metabolism	40367603 41555105		OLD OLD	See endnote ⁶⁸
835.4300	Aerobic Aquatic Metabolism	49234801	Bayer CropScience LP	PAY	See endnote ⁶⁹
835.4400	Anaerobic Aquatic Metabolism	49647302	Bayer CropScience LP	PAY	See endnote ⁷⁰
835.1230	Leaching / Adsorption / Desorption	42283001 43058501-02		OLD OLD	See endnote ⁷¹
835.1410	Volatility – Laboratory				Not required
835.8100	Volatility – Field				Not required
835.6100	Soil Field Dissipation Study	40380901		OLD	See endnote ⁷²
835.6200	Aquatic Sediment Field Dissipation Study				Not required
835.6300	Forest Field Dissipation Study				Not required
835.6400	Combination and Tank Mixes				Not required
835.7100	Ground Water Monitoring	45737901		OLD	See endnote ⁷³

Signature 	Name and Title Karina Castro; Federal Regulatory Manager	Date March 3, 2020
---	---	-----------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020			EPA Reg No./File Symbol 11603-37		Page 12 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604			Product Metribuzin Technical		
Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)					
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.6100	Environmental Chemistry Methods	49647301 49846001	Bayer CropScience LP Bayer CropScience LP	PER PER	
860.1300	Nature of the Residue: Plants	00024737 00036112 00036219-20 00045257-58 00045260 00045275 00045278-80 00106168 42903601 42967901 44594101 44833208 45012403-04		OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD	
860.1300	Nature of the Residue: Livestock	00036105-07 42598201-02		OLD OLD	
860.1850	Confined Rotational Crops	40577701 41254101		OLD OLD	

Signature 	Name and Title Karina Castro; Federal Regulatory Manager	Date March 3, 2020
---	---	-----------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020

EPA Reg No./File Symbol 11603-37

Page 13 of 26

Applicant's/Registrant's Name & Address

ADAMA Agan, Ltd.
c/o Makhteshim-Agan of North America, Inc.
3120 Highwoods Blvd., Suite 100
Raleigh, NC 27604

Product

Metribuzin Technical

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

860.1340

Residue Analytical Methods

00015412

OLD

00015414

OLD

00029800

OLD

00032428-29

OLD

00036216

OLD

00036427

OLD

00036431-33

OLD

00036776

OLD

00036782

OLD

00039530

OLD

00045256

OLD

00045282

OLD

00054354

OLD

00054369

OLD

00069067

OLD

00087925-26

OLD

00106163-65

OLD

00106168-69

OLD

00106173

OLD

00106179

OLD

00106180

OLD

00106182-83

OLD

00106185

OLD

Signature

Name and Title

Karina Castro; Federal Regulatory Manager

Date

March 3, 2020



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020	EPA Reg No./File Symbol 11603-37	Page 14 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604	Product Metribuzin Technical	

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1340 (cont.)	Residue Analytical Methods (cont.)	00106193 00106199 00106203 00106205 00106211 GS0181-006 GS0181-007 41021001 43218205-06		OLD OLD OLD OLD OLD OLD OLD OLD OLD	
860.1360	Multiresidue Method	41021001		OLD	
860.1380	Storage Stability	00036441 00036777-78 00054355-56 00054358 00054360 00054363 00054366 GS0181-002 41020601 43218201-07 43253601 44833201-02		OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD	

Signature 	Name and Title Karina Castro; Federal Regulatory Manager	Date March 3, 2020
---	---	-----------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020	EPA Reg No./File Symbol 11603-37	Page 15 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604	Product Metribuzin Technical	

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: alfalfa and forage grasses	00036437-38 00036769-70 00036779-80 00106182 00106185 00145504 00149205 40277902 44833204		OLD OLD OLD OLD OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: asparagus	00036436 00036781 40802701		OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: barley	00036434 00036440 00045255 00087926 00106182 00106185		OLD OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: carrots	00144087 00162025		OLD OLD	

Signature 	Name and Title Karina Castro; Federal Regulatory Manager	Date March 3, 2020
---	---	-----------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020	EPA Reg No./File Symbol 11603-37	Page 16 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604	Product Metribuzin Technical	

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: corn	00036429		OLD	
		00036443		OLD	
		00078942-43		OLD	
		00106173		OLD	
		40277901		OLD	
		40367605		OLD	
		40371701		OLD	
		42206201		OLD	
		43341401-02		OLD	
		44833203		OLD	
		45012405		OLD	
		45012407		OLD	
860.1500	Magnitude of the Residue in Plants: garbanzo beans (chickpeas)	00106179 40277903		OLD OLD	
860.1500	Magnitude of the Residue in Plants: lentils	00106179		OLD	
860.1500	Magnitude of the Residue in Plants: peas	00106179 40277903		OLD OLD	

Signature 	Name and Title Karina Castro; Federal Regulatory Manager	Date March 3, 2020
---	---	-----------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020	EPA Reg No./File Symbol 11603-37	Page 17 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604	Product Metribuzin Technical	

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: potatoes	00026411		OLD	
		00039525		OLD	
		00039531		OLD	
		00078436		OLD	
		00078438		OLD	
		00105212		OLD	
		00106191		OLD	
		00106199		OLD	
		00106203		OLD	
		00106205		OLD	
		00106797		OLD	
		44833202		OLD	
860.1500	Magnitude of the Residue in Plants: sainfoin	00036437		OLD	
		00036769		OLD	
		00036779		OLD	
		00106182		OLD	
		00106185		OLD	
		40277902		OLD	

Signature 	Name and Title Karina Castro; Federal Regulatory Manager	Date March 3, 2020
---	---	-----------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020	EPA Reg No./File Symbol 11603-37	Page 18 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604	Product Metribuzin Technical	

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: soybeans	00015773		OLD	
		00015949		OLD	
		00024503		OLD	
		00064797		OLD	
		00067433		OLD	
		00086681		OLD	
		00087925		OLD	
		00101537		OLD	
		00106183		OLD	
		00106215		OLD	
		GS0181-003		OLD	
		40277904		OLD	
860.1500	Magnitude of the Residue in Plants: sugarcane	00106168		OLD	
		00106190		OLD	
		00106202		OLD	
860.1500	Magnitude of the Residue in Plants: tomatoes	00106180		OLD	
		00106212		OLD	

Signature 	Name and Title Karina Castro; Federal Regulatory Manager	Date March 3, 2020
--	---	-----------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020	EPA Reg No./File Symbol 11603-37	Page 19 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604	Product Metribuzin Technical	

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: wheat	00036426-28		OLD	
		00036432-33		OLD	
		00036435		OLD	
		00036439		OLD	
		00036444-45		OLD	
		00067425		OLD	
		00078943		OLD	
		00087926		OLD	
		00106173		OLD	
		00106182		OLD	
		00106184-85		OLD	
		40277905		OLD	
		40367601		OLD	
		40367604		OLD	
		44833205		OLD	
		45012401		OLD	

Signature 	Name and Title Karina Castro; Federal Regulatory Manager	Date March 3, 2020
--	---	-----------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020	EPA Reg No./File Symbol 11603-37	Page 20 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604	Product Metribuzin Technical	

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520	Magnitude of the Residue in Processed Food or Feed: barley	00036428 00036444 00087926 00106182 00106185 44833205 45012408		OLD OLD OLD OLD OLD OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: corn	40367605 43293201		OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: potatoes	00036110 00036112		OLD OLD	

Signature 	Name and Title Karina Castro; Federal Regulatory Manager	Date March 3, 2020
---	---	-----------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020	EPA Reg No./File Symbol 11603-37	Page 21 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604	Product Metribuzin Technical	

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520	Magnitude of the Residue in Processed Food or Feed: soybeans	00015773 00015949 00024503 00064797 00067433 00086681 00087925 00101537 00106183 00106215 GS0181-003 40277904		OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: sugarcane	00106168 00106190 00106202 44833206		OLD OLD OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: tomatoes	00106180 00106212 43568701 44833207		OLD OLD OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: wheat	44833205 45012408		OLD OLD	

Signature 	Name and Title Karina Castro; Federal Regulatory Manager	Date March 3, 2020
---	---	-----------------------



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date March 3, 2020	EPA Reg No./File Symbol 11603-37	Page 22 of 26
Applicant's/Registrant's Name & Address ADAMA Agan, Ltd. c/o Makhteshim-Agan of North America, Inc. 3120 Highwoods Blvd., Suite 100 Raleigh, NC 27604	Product Metribuzin Technical	

Ingredient metribuzin (CAS No.: 21087-64-9; Chemical Code: 101101)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1480	Magnitude of the Residue in Meat, Milk, Poultry, and Eggs	00036111 00036117 00036772 00045262-63 00045283-86 00106199		OLD OLD OLD OLD OLD OLD	
860.1400	Nature and Magnitude of the Residue in Potable Water				Not required
860.1400	Magnitude of the Residue in Fish				Not required
860.1400	Magnitude of the Residue in Plants Resulting from the Use of Irrigation Water				Not required
860.1460	Magnitude of the Residue in Food Handling Establishments				Not required
860.1900	Field Rotational Crops	46209001 46209002		OLD OLD	

Signature 	Name and Title Karina Castro; Federal Regulatory Manager	Date March 3, 2020
--	---	-----------------------

Data Matrix Endnotes for Metribuzin Technical

- ¹ **830.1650** – These data are not required for the registration of a manufacturing use product. See 830.1620 for production process information.
- ² **830.6315** – A waiver from this data requirement was requested based on the fact that Metribuzin Technical is a solid and is not expected to be flammable and does not contain components that are flammable. EPA approved this waiver request.
- ³ **830.6316** – A waiver from this data requirement was requested based on the fact that metribuzin does not contain the chemical bonds or functional groups associated with explosive chemicals and does not contain other components that are explosive. EPA approved this waiver request.
- ⁴ **830.6319, 830.6321, 830.7100, 830.7520** – Metribuzin Technical is a solid and not an emulsifiable concentrate and is not to be diluted with petroleum solvents. Therefore, miscibility data are not required for this technical. Metribuzin Technical is not to be used around electrical equipment and data for dielectric breakdown constant are not required. Metribuzin Technical is a solid and not a liquid, therefore, viscosity data are not required for this product. A request for a waiver from the requirement for particle size, fiber length and diameter distribution was based on the fact that metribuzin is not water insoluble and is not a fibrous material. EPA approved this waiver request.
- ⁵ **830.7220** – Metribuzin Technical is a solid and boiling point data are not required for solids. Data for melting point are required for solids. See Guideline 830.7200.
- ⁶ **830.7950** – ADAMA Agan, Ltd. is citing public literature data for vapor pressure of metribuzin. The vapor pressure is 0.058 mPa (20°C) (Reference: Tomlin, C. D. S. (Ed.), "The Pesticide Manual", 13th Edition, p. 675, BCPC Publications, Hampshire, 2003).
- ⁷ **870.1100** – The study cited is acceptable and satisfies the data requirement as per the June 27, 2017 *Metribuzin: Draft Risk Assessment for Registration Review* (DP Barcode: D432005) (Human Health RA).
- ⁸ **870.1200** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ⁹ **870.1300** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ¹⁰ **870.2400** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ¹¹ **870.2500** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ¹² **870.2600** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ¹³ **850.2100** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the June 29, 2017 *Registration Review: Ecological Risk Assessment of the Environmental Fate and Ecological Risk of Metribuzin* (DP Barcode: 432009) (Ecological RA).
- ¹⁴ **850.2200** – The studies cited are acceptable and satisfy the data requirement as per the Ecological RA.
- ¹⁵ **850.2300** – The studies cited are acceptable and satisfy the data requirement as per the Ecological RA.
- ¹⁶ **850.1075** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the Ecological RA.
- ¹⁷ **850.1010** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the Ecological RA.
- ¹⁸ **850.1025, 850.1035, 850.1045, 850.1055, 850.1075** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the Ecological RA. Note: MRID No. 47023011 listed in the Ecological RA but does not appear to be a valid MRID No. so it has not been cited. Instead, MRID No. 00161502 has been cited, which appears to correspond to the correct study.

Data Matrix Endnotes for Metribuzin Technical

- ¹⁹ **850.1300** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the Ecological RA.
- ²⁰ **850.1350** – As per the September 24, 2012 *Registration Review: Preliminary Problem Formulation for Environmental Fate and Ecological Risk, Endangered Species, and Drinking Water Assessments for Metribuzin* (DP Barcode: D401027) (Problem Formulation), “none of the criteria were triggered” for the conditional requirement of these data; therefore, they are not required.
- ²¹ **850.1400** – The study cited is supplemental but satisfies the data requirement as per the Ecological RA and no additional data have been submitted nor have been required.
- ²² **850.1400** – As per the Problem Formulation, “none of the criteria were triggered” for the conditional requirement of these data; therefore, they are not required.
- ²³ **850.1710, 850.1730, 850.1850** – As per the Problem Formulation, these data are not required based on the Log K_{ow}.
- ²⁴ **850.3020** – The study cited is acceptable and satisfies the data requirement as per the Ecological RA.
- ²⁵ **850.3030, 850.3040** – The need for these data is dependent upon the results of lower-tier testing and the Agency determination that a refined pollinator risk assessment is needed.
- ²⁶ **870.6100** – These data are not required as per the Human Health RA.
- ²⁷ **870.6200** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ²⁸ **870.3100** – As per the Human Health RA, “An acceptable study is not available but the data requirement has been satisfied by guideline 870.4100.” Refer to the data cited under guideline 870.4100.
- ²⁹ **870.3150** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ³⁰ **870.3200** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ³¹ **870.3250** – These data are not required as per the Human Health RA.
- ³² **870.3465** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ³³ **870.6100** – These data are not required as per the Human Health RA.
- ³⁴ **870.6200** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ³⁵ **870.4100** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA. Unacceptable data are not cited. Chronic dog data are no longer required as per the 2007 changes to 40 CFR Part 158.
- ³⁶ **870.4200** – The studies cited are acceptable and satisfy the data requirement as per the Human Health RA. Unacceptable data are not cited.
- ³⁷ **870.3700** – The studies cited are acceptable and satisfy the data requirement as per the Human Health RA. Note: MRID No. 41881801 is listed in the Human Health RA but is not cited because it appears to be related to a different active ingredient for a different data requirement.
- ³⁸ **870.3800** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ³⁹ **870.6300** – These data are not required as per the Human Health RA.
- ⁴⁰ **870.5100** – The studies cited are acceptable and satisfy the data requirement as per the Human Health RA.

Data Matrix Endnotes for Metribuzin Technical

- ⁴¹ **870.5300, 870.5375** – The studies cited are acceptable and satisfy the data requirement as per the Human Health RA. Note: It appears an invalid MRID No. is referenced in the Human Health RA (MRID No. 42555102), however the correct MRID No. is cited here.
- ⁴² **870.5385, 870.5395, 870.5450, 870.5550** – The studies cited are acceptable and satisfy the data requirement as per the Human Health RA.
- ⁴³ **870.7485** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ⁴⁴ **870.7600** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ⁴⁵ **870.7800** – As per the Human Health, “A data waiver was granted by HASPOC for the immunotoxicity study (TXR 0056928; Rury, 2014).”
- ⁴⁶ **875.1100, 875.1300, 875.1500, 875.1600, 875.1700** – ADAMA is a member in good standing of the Agricultural Handler Exposure Task Force (AHETF).
- ⁴⁷ **875.2200, 875.2300, 875.2400, 875.2500, 875.2600, 875.2700, 875.2800, 875.2900, 875.3000** – ADAMA is a member in good standing of the Agricultural Reentry Task Force (ARTF) and the Outdoor Residential Exposure Task Force (ORETF).
- ⁴⁸ **201-1, 202-1** – ADAMA is a member in good standing of the Spray Drift Task Force (SDTF).
- ⁴⁹ **890.1150** – As per the June 29, 2015 *Metribuzin Data Evaluation Records (DERs) for EDSP Tier 1 Assays* (DP Barcodes: D398559 and D401219) (EDSP DERs), these data are not applicable as the requirement was satisfied by other scientifically relevant information.
- ⁵⁰ **890.1150** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁵¹ **890.1200** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁵² **890.1250** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁵³ **890.1300** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁵⁴ **890.1350** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁵⁵ **890.1400** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁵⁶ **890.1450** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁵⁷ **890.1500** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁵⁸ **890.1550** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁵⁹ **890.1600** – The study cited is acceptable and satisfies the data requirement as per the EDSP DERs.
- ⁶⁰ **850.4100** – The studies cited are acceptable and satisfy the data requirement as per the Ecological RA and the Problem Formulation. Note: additional data, classified as supplemental, are not cited as there was no data gap listed as per the Problem Formulation nor were the data required in the June 5, 2013 *Metribuzin Generic Data Call-In* (GDCI-101101-1304) (DCI).
- ⁶¹ **850.4150** – The study cited is acceptable and satisfies the data requirement as per the Ecological RA and the Problem Formulation. Note: additional data, classified as supplemental, are not cited as there was not data gap listed as per the Problem Formulation nor were the data requirement in the DCI.
- ⁶² **850.4400, 850.4500** – The studies cited are acceptable and satisfy the data requirement as per the Ecological RA and the Problem Formulation.
- ⁶³ **850.4550** – The study cited is acceptable and satisfies the data requirement as per the Ecological RA and Problem Formulation.
- ⁶⁴ **835.2120** – The study cited is acceptable and satisfies the data requirement as per the Ecological RA and the Problem Formulation.

Data Matrix Endnotes for Metribuzin Technical

- ⁶⁵ **835.2240** – The study cited is acceptable and satisfies the data requirement as per the Ecological RA and the Problem Formulation.
- ⁶⁶ **835.2410** – The study cited is acceptable and satisfies the data requirement as per the Ecological RA and the Problem Formulation.
- ⁶⁷ **835.4100** – The study cited is acceptable and satisfies the data requirement as per the Ecological RA and the Problem Formulation.
- ⁶⁸ **835.4200** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation.
- ⁶⁹ **835.4300** – The study cited is acceptable and satisfies the data requirement as per the Ecological RA.
- ⁷⁰ **835.4400** – The study cited is acceptable and satisfies the data requirement as per the Ecological RA.
- ⁷¹ **835.1230** – The studies cited are acceptable and satisfy the data requirement as per the Ecological RA and the Problem Formulation.
- ⁷² **835.6100** – As per the Problem Formulation, the study cited is supplemental, but it was noted that a small-scale prospective ground water study (MRID No. 45737901 cited under guideline 835.7100) accounted for leaching that was not accounted for in this study. A new terrestrial field dissipation study was not required. In addition, invalid data are not cited.
- ⁷³ **835.7100** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.